

JOHN AUERBACH COMMISSIONER

# The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

12/23/10

Melissa Brooks Assistant District Attorney, Suffolk County

Dear ADA Brooks,

Enclosed are copies of the information you requested regarding sample numbers in the following:

- 1. Drug Analysis Laboratory Receipt.
- 2. Curriculum Vitae for Daniela Frasca and Kate A. Corbett.
- 3. Control Cards with analytical results for sample numbers and
- 4. Analysis notation forms for sample number and control card hand written notations for sample number
- 5. GC-MS raw data sheets for sample numbe

GC-MS confirmatory testing was performed by Kate A. Corbett. All other testing was performed by Daniela Frasca. If you have any questions or concerns about these facts, please contact me at the number below.

Sincerely,

Daniela Frasca Chemist II Drug Analysis Lab Jamaica Plain, MA 02130 (617) 983-6631



| CC #   |          | <br> |  |
|--------|----------|------|--|
| воок # |          | <br> |  |
| PAGE # |          | <br> |  |
| DECTO  | ICTION # |      |  |

| DRUG RECEIPT                               | PAGE # DESTRUCTION # |  |  |  |  |
|--|----------------------|--|--|--|--|
| District/Unit                              | J. COYNE             | ID#/09.  | 5 <del>2</del>   |  |  |
| DEFENDANT'S NAME                           | ADDRESS              | CITY   | STATE  |  |  |
|  |                      |  |  |  |  |
|  |                      |  |  |  |  |
|  |                      | LAB US   | SE ONLY  |  |  |
| DESCRIPTION OF ITEMS SUBMITTED             | GROSS<br>QUANTITY    | GROSS<br>WEIGHT  | ANALYSIS<br>NUMBER   |  |  |
| COCAINE                                    | 13<br>Boacs          | 17.04  |  |  |  |
| COCAINE MARYUMA                            | 71 8/83              | 1236.80  |  |  |  |
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| To be completed by ECU personnel only      |                      | /  | 1.61   |  |  |
| Name and Rank of Submitting Officer        | White                | Date   | 11 12  |  |  |
| Received by                                | •                    | Date/_   | 16-10  |  |  |

BPD Form 0038-BIS-0907 (prev. 1753)

Daniela Frasca

## Education

# Boston University School of Medicine, Boston MA

Currently enrolled in the Biomedical Forensic Science MS Program

### Suffolk University, Boston, MA

Graduated in 05/1996 and received a Bachelor of Science in Biochemistry

### **EXPERIENCE**

Massachusetts State Laboratory Institute/DPH, Jamaica Plain, MA 01/2001 – present Drug Laboratory: Chemist II

- Analysis of all substances by chemical screening, microscopy, and instrument confirmation to determine the presence of drugs for law enforcement agencies in the Commonwealth of Massachusetts.
- Appointed assistant analyst on January 29, 2001 by the Assistant Commissioner of DPH
- Completed four weeks of training in drug analysis under the supervision of senior chemists.

## Quest Diagnostics Incorporated, Cambridge, MA

09/1996 - 10/2001

Department of Toxicology: Medical Technologist I

- Handles comprehensive toxic analysis, therapeutic drug monitoring, forensic drug screening, and compound ID's of biohazard samples utilizing standard operating procedures in clinical toxicology.
- · Entered data and interpreted results for reporting
- QC/QA of multiple analytical instrumentation as well as maintenance
- Completed 60 days of training under the supervision of doctorate level toxicologists.

# **Additional Training**

## Northeastern Association of Forensic Scientists

Designer Drugs

Clandestine labs

Agilent Instruments and Software

Digital Photography

### McCrone Research Institute

Forensic Polarized Microscopy

Polarized Microscopy of Illicit Drugs and Excipients

## Massachusetts State Laboratory Institute

**Expert Witness** 

Raman Spectrophotometer

## Associations and Programs

| ********** |   |                |
|------------|---|----------------|
| •          | Northeastern Association of Forensic Scientists (NEAFS)         | 2001 - present |
| •          | The International Association of Forensic Toxicologists (TIAFT) | 2003 - present |
|            | The International Association of Therapeutic Drug Monitoring    | 2003 - present |
|            | And Clinical Toxicology (IATDMCT)                               |                |
|            | Massachusetts State Science Fair Judge                          | 2000 - present |
|            | Middle School State Science Fair Judge                          | 2006 - present |
| •          | Volunteer Science Project Mentor/Tutor                          | 2003 - present |
|            | for the TTT Mentor Program                                      | · ·            |

### Curriculum Vitae

#### Kate A. Corbett

#### Education

Bachelor of Science Degree, CHEMISTRY May 2003 MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

#### **Employment**

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

**Drug Analysis Laboratory** 

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

#### Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- > Generated and examined sensors employing fluorescence spectroscopy
- > Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- > Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 - August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

Officer: P.O. SYBIL WHITE

Def:

Amount: Subst: SUB

No. Cont: 13 Cont: pb

Date Rec'd: 07/16/2010 No. Analyzed: 6

Gross Wt.: 17.04 Net Weight: 1/1.670

Prelim Coche Findings: Cont. P. Cont.

No. Date Analyzed: City: Boston D.C.U. Police Dept. JUL 26 2010 Officer: P.O. SYBIL WHITE 64 Def Amount! Subst: VM No. Cont: 71 Cont: pb Date Rec'd: 07/16/2010 No. Analyzed: / Gross Wt.: 1236.00 Net Weight: Prelim: Findings:

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PRELIMINARY TEST RESULTS

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DATE 7/21/10

GC/MS CONFIRMATORY TEST

RESULTS COOME

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OPERATOR PLINSN MS! ICHC

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Date Analyzed:

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

JUL 26 2010

Subst: VM

Amount 28.87

No. Cont:

Cont: pb

Date Rec'd: 07/16/2010

Gross Wt.:

1236.00

No. Analyzed: /

Net Weight: 4 4 8.99

Prelim:

Findings:

Corbett\_email\_PRR\_006975

#### Area Percent / Library Search Report

19/91/10 NKNC

Information from Data File:

File Name : F:\Q3-2010\System7\07\_27\_10\733480.D

Operator : KAC

Date Acquired : 28 Jul 2010 2:26

Sample Name : BLANK

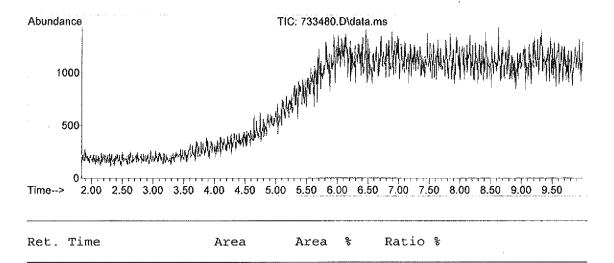
Submitted by

Vial Number :

2

AcquisitionMeth: DRUGS.M

Integrator : RTE



\*\*\*NO INTEGRATED PEAKS\*\*\*

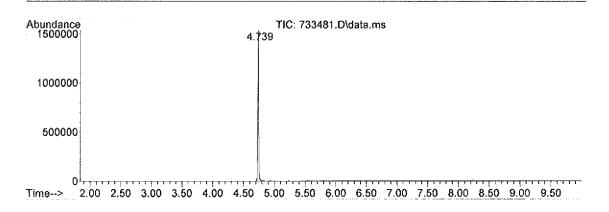
File Name : F:\Q3-2010\System7\07\_27\_10\733481.D

Operator : KAC
Date Acquired : 28 Jul 2010

Sample Name : COCAINE STD

Submitted by

Vial Number 81 AcquisitionMeth: DRUGS.M Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.739     | 1466031 | 100.00 | 100.00  |

File Name : F:\Q3-2010\System7\07\_27\_10\733481.D

Operator : KAC

Date Acquired : 28 Jul 2010 2:39

Sample Name : COCAINE STD

Submitted by

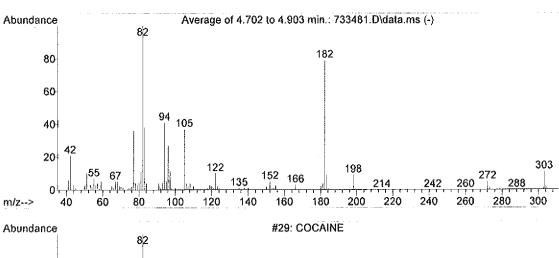
Vial Number : 81 AcquisitionMeth: DRUGS.M Integrator : RTE

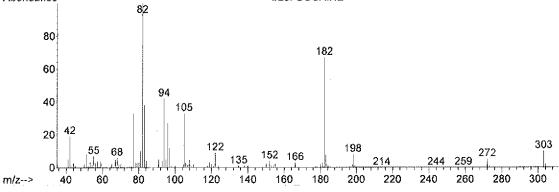
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST05a.L Minimum Quality: 80

C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.74 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



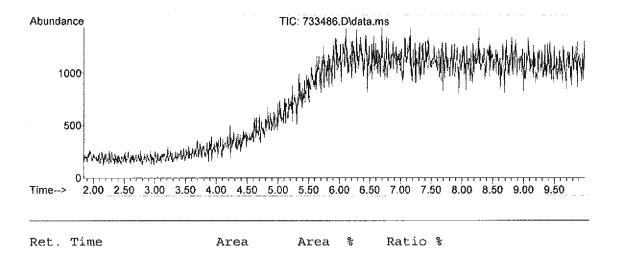


File Name : F:\Q3-2010\System7\07\_27\_10\733486.D

Operator : KAC

Date Acquired : 28 Jul 2010 3:42

Sample Name : BLANK
Submitted by : DXF
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



\*\*\*NO INTEGRATED PEAKS\*\*\*

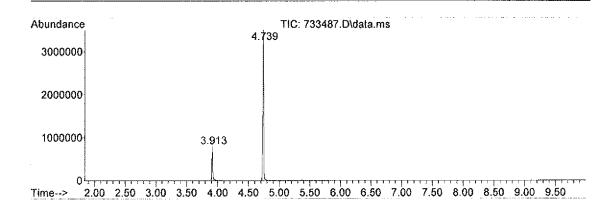
File Name : F:\Q3-2010\System7\07\_27\_10\733487.D

Operator : KAC

Date Acquired : 28 Jul 2010 3:54

Sample Name :

Submitted by : DXF
Vial Number : 87
AcquisitionMeth: DRUGS.M
Integrator : RTE



| Ret. Time      | Area              | Area % | Ratio %         |  |
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File Name : F:\Q3-2010\System7\07\_27\_10\733487.D

Operator : KAC

Date Acquired : 28 Jul 2010 3:54

Sample Name :

Submitted by : DXF Vial Number : 87 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

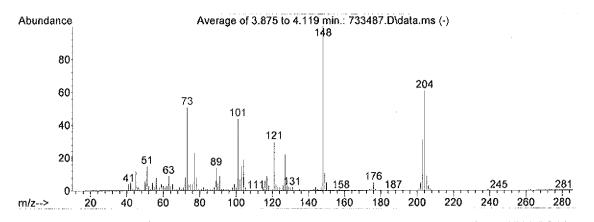
Minimum Quality: 80 Minimum Quality: 80

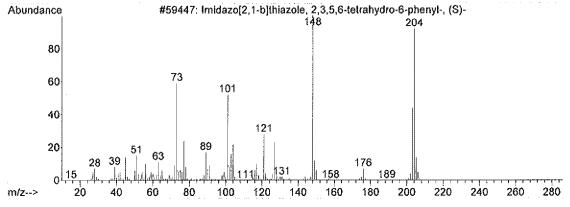
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C:\Database\PMW\_TOX2.L

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| 1   | 3.91 | C:\Database\NIST05a.L              |             |             |      |
|     |      | <pre>Imidazo[2,1-b]thiazole,</pre> | 2,3,5,6-tet | 014769-73-4 | 99   |
|     |      | <pre>Imidazo[2,1-b]thiazole,</pre> | 2,3,5,6-tet | 014769-73-4 | 98   |
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File Name : F:\Q3-2010\System7\07\_27\_10\733487.D

Operator : KAC

Date Acquired : 28 Jul 2010 3:54

Sample Name :

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80

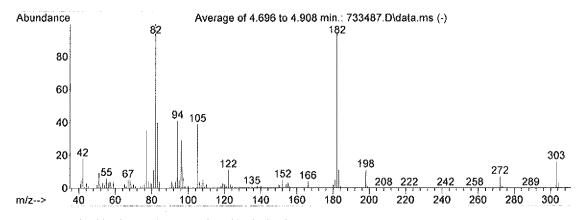
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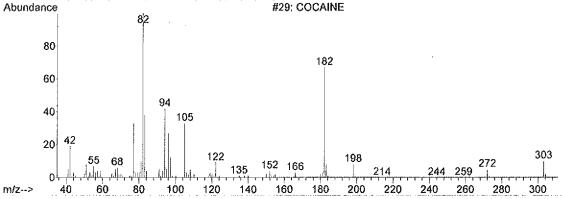
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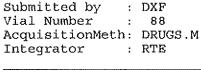
File Name : F:\Q3-2010\System7\07\_27\_10\733488.D

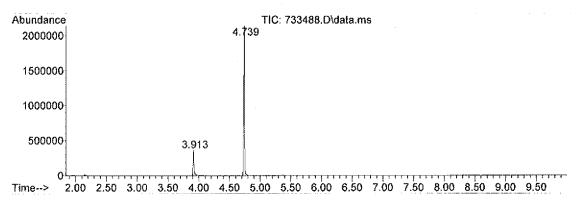
Operator : KAC

Date Acquired 28 Jul 2010 4:07

Sample Name

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| Ret. Time      | Area | Area %         | Ratio % |  |
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| 3.913<br>4.739 |      | 16.38<br>83.62 |         |  |

File Name : F:\Q3-2010\System7\07 27 10\733488.D

Operator : KAC

Date Acquired : 28 Jul 2010 4:07

Sample Name

Submitted by : DXF
Vial Number : 88
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

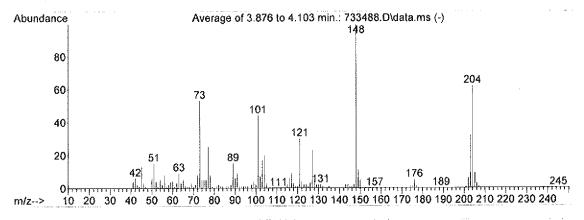
Minimum Quality: 80

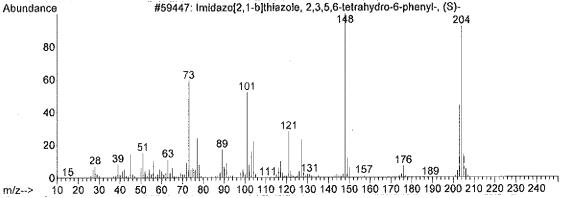
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|   |     |      | Imidazo[2,1-b]thiazole,            | 2,3,5,6-tet | 014769-73-4 | 98   |
|   |     |      | <pre>Imidazo[2,1-b]thiazole,</pre> | 2,3,5,6-tet | 006649-23-6 | 98   |
|   |     |      | Imidazo[2,1-b]thiazole,            | 2,3,5,6-tet | 006649-23-6 | 98   |





File Name : F:\Q3-2010\System7\07 27 10\733488.D

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Date Acquired 4:07

Sample Name

Submitted by DXF Vial Number 88 AcquisitionMeth: DRUGS.M Integrator : RTE

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Minimum Quality: 80 Minimum Quality: 80

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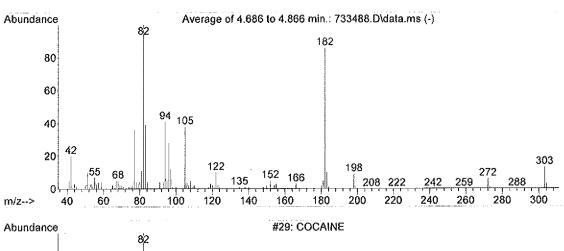
CAS# PK# RTLibrary/ID Qual

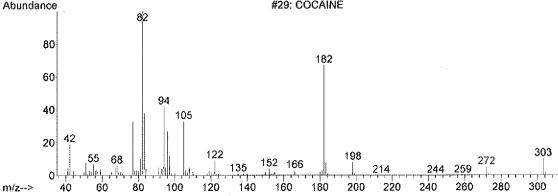
4.74 C:\Database\SLI.L 2

COCAINE

000050-36-2

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File Name : F:\Q3-2010\System7\07\_27\_10\733489.D

Operator : KAC

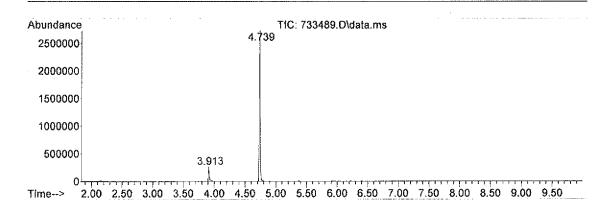
Date Acquired : 28 Jul 2010 4:20

Sample Name : Submitted by : I

Vial Number

: DXF : 89

AcquisitionMeth: DRUGS.M Integrator : RTE



| Ret. Time      | Area              | Area % | Ratio %         |  |
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File Name : F:\Q3-2010\System7\07 27 10\733489.D

Operator : KAC

Date Acquired : 28 Jul 2010 4:20

Sample Name

Submitted by : DXF
Vial Number : 89
AcquisitionMeth: DRUGS.M
Integrator : RTE

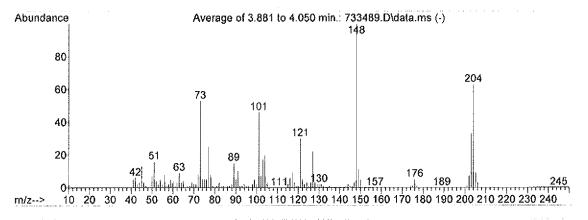
Search Libraries: C:\Database\SLI.L

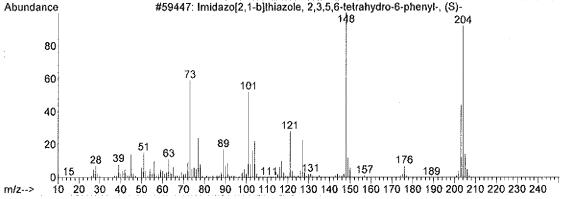
J.L Minimum Quality: 80 ST05a.L Minimum Quality: 80

C:\Database\NIST05a.L

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| ÞK | :# | RT   | Library/ID                         |             | CAS#        | Qual |
|----|----|------|------------------------------------|-------------|-------------|------|
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|    |    |      | <pre>Imidazo[2,1-b]thiazole,</pre> | 2,3,5,6-tet | 014769-73-4 | 98   |
|    |    |      | <pre>Imidazo[2,1-b]thiazole,</pre> | 2,3,5,6-tet | 006649-23-6 | 98   |
|    |    |      | <pre>Imidazo[2,1-b]thiazole,</pre> | 2,3,5,6-tet | 014769-73-4 | 97   |





File Name : F:\Q3-2010\System7\07\_27\_10\733489.D

Operator : KAC

Date Acquired : 28 Jul 2010 4:20

Sample Name :

Submitted by : DXF
Vial Number : 89
AcquisitionMeth: DRUGS.M
Integrator : RTE

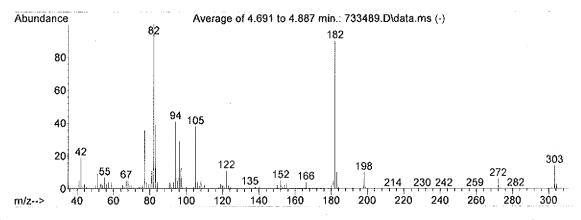
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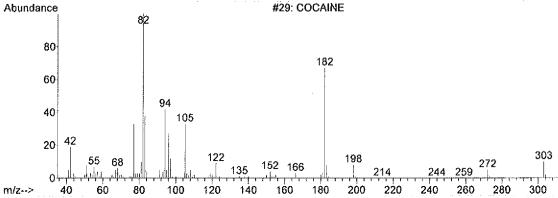
C:\Database\SLI.L Minimum Quality: 80 C:\Database\NIST05a.L Minimum Quality: 80

C:\Database\PMW\_TOX2.L

PK# RT Library/ID CAS# Qual

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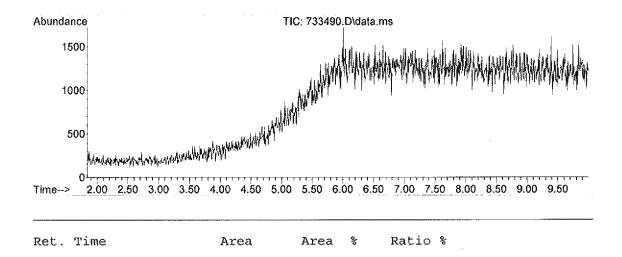


File Name : F:\Q3-2010\System7\07\_27\_10\733490.D

Operator : KAC

Date Acquired : 28 Jul 2010 4:32

Sample Name : BLANK
Submitted by : DXF
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



\*\*\*NO INTEGRATED PEAKS\*\*\*

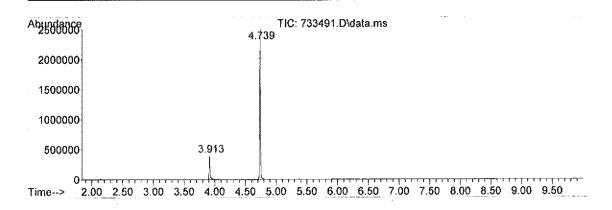
File Name : F:\Q3-2010\System7\07\_27\_10\733491.D

Operator : KAC

Date Acquired : 28 Jul 2010 4:45

Sample Name :

Submitted by : DXF Vial Number : 91 AcquisitionMeth: DRUGS.M Integrator : RTE



| Ret. Time      | Area              | Area % | Ratio %         |  |
|----------------|-------------------|--------|-----------------|--|
| 3.913<br>4.739 | 466102<br>2291776 |        | 20.34<br>100.00 |  |

File Name : F:\Q3-2010\System7\07\_27\_10\733491.D

Operator : KAC

Date Acquired : 28 Jul 2010 4:45

Sample Name :

Submitted by : DXF
Vial Number : 91
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

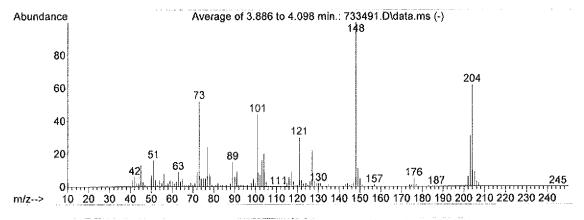
Minimum Quality: 80

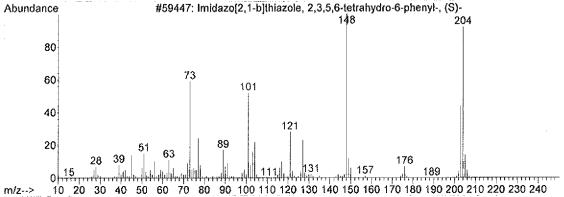
C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW\_TOX2.L

| PK#   | RT   | Library/ID                          |             | CAS#        | Qual |
|-------|------|-------------------------------------|-------------|-------------|------|
| <br>1 | 3.91 | C:\Database\NIST05a.L               |             |             |      |
|       |      | <pre>Imidazo[2,1-b]thiazole,</pre>  | , , ,       |             | 98   |
|       |      | <pre>Imidazo[2,1-b]thiazole,</pre>  | 2,3,5,6-tet | 006649-23-6 | 98   |
|       |      | <pre>Imidazo[2,1-b] thiazole,</pre> | 2,3,5,6-tet | 006649-23-6 | 98   |





File Name :  $F: Q3-2010 \System7 \ 07_27_10 \ 733491.D$ 

: KAC Operator

Date Acquired 28 Jul 2010 4:45

Sample Name

Submitted by DXF Vial Number 91 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

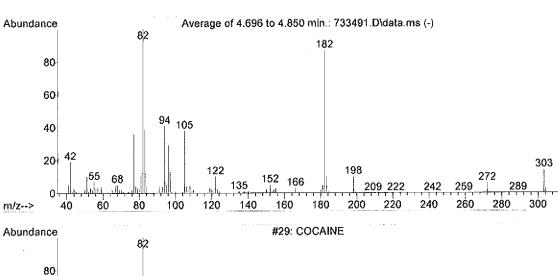
C:\Database\PMW TOX2.L

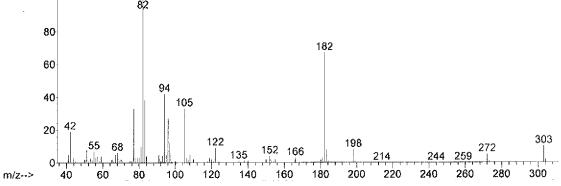
PK# CAS# RTLibrary/ID Qual

4.74 C:\Database\SLI.L 2 COCAINE

000050-36-2

99





File Name : F:\Q3-2010\System7\07\_27\_10\733492.D

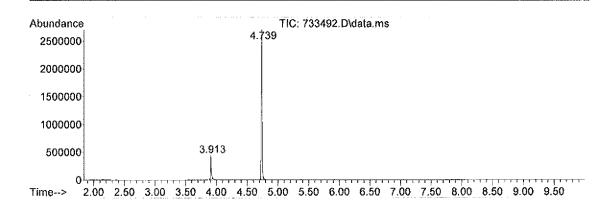
Operator : KAC

Date Acquired : 28 Jul 2010 4:58

Sample Name Submitted by

: DXF : 92

Vial Number : 92 AcquisitionMeth: DRUGS.M Integrator : RTE



| Ret. Time      | Area | Area %         | Ratio %         |  |
|----------------|------|----------------|-----------------|--|
| 3.913<br>4.739 |      | 16.70<br>83.30 | 20.05<br>100.00 |  |
|                |      |                |                 |  |

File Name : F:\Q3-2010\System7\07 27 10\733492.D

Operator KAÇ

Date Acquired 28 Jul 2010 4:58

Sample Name

Submitted by DXF Vial Number 92 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

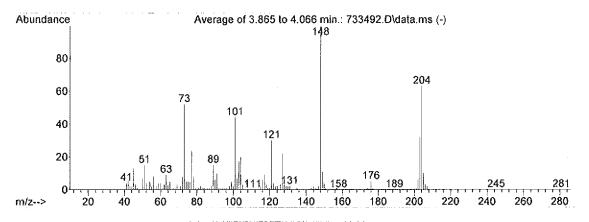
C:\Database\NIST05a.L

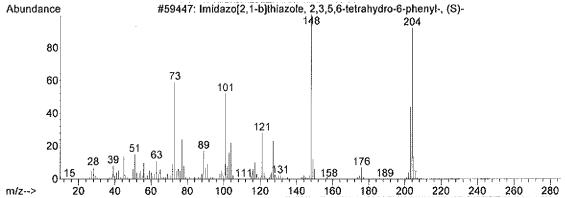
C:\Database\PMW\_TOX2.L

PK# RTLibrary/ID CAS# Qual

3.91 C:\Database\NIST05a.L 1

Imidazo[2,1-b]thiazole, 2,3,5,6-tet 014769-73-4 98 Imidazo[2,1-b]thiazole, 2,3,5,6-tet 006649-23-6 98 Imidazo[2,1-b]thiazole, 2,3,5,6-tet 006649-23-6 98





File Name : F:\Q3-2010\System7\07 27 10\733492.D

Operator : KAC

Date Acquired : 28 Jul 2010 4:58

Sample Name :

Submitted by : DXF
Vial Number : 92
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW\_TOX2.L

PK# RT Library/ID

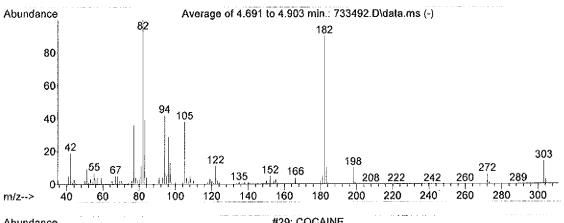
CAS# Qual

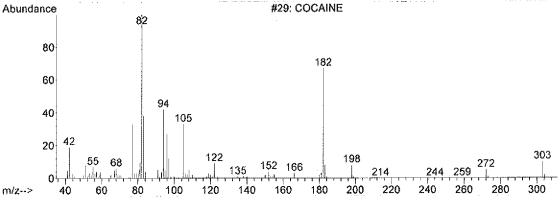
2 4.74 C:\Database\SLI.L

COCAINE

000050-36-2

99





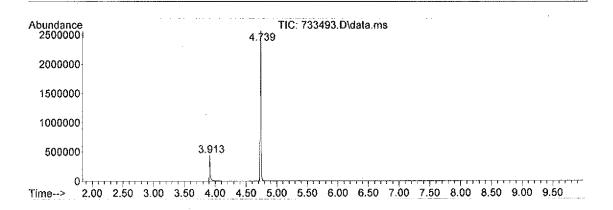
File Name : F:\Q3-2010\System7\07\_27\_10\733493.D

Operator : KAC

Date Acquired : 28 Jul 2010 5:10

Sample Name

Submitted by : DXF
Vial Number : 93
AcquisitionMeth: DRUGS.M
Integrator : RTE



| Ret. Time      | Area | Area %         | Ratio % |  |
|----------------|------|----------------|---------|--|
| 3.913<br>4.739 |      | 17.25<br>82.75 |         |  |

File Name :  $F: Q3-2010 \times 7 07_27_10 \times 3493.D$ 

Operator KAC

Date Acquired 28 Jul 2010 5:10

Sample Name

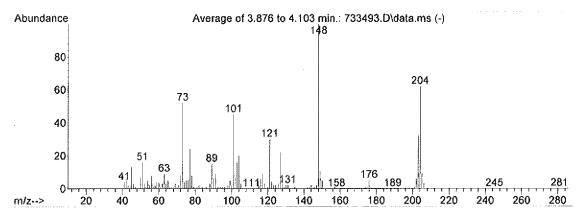
Submitted by DXF Vial Number 93 AcquisitionMeth: DRUGS.M Integrator : RTE

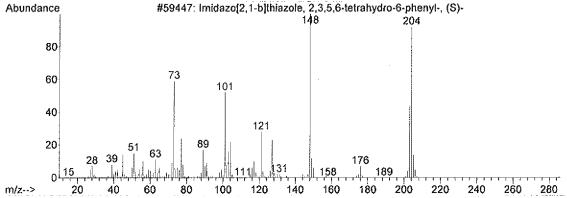
Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW\_TOX2.L

| PK# |    | RT   | Library/ID                         | CAS#        | Qual        |    |
|-----|----|------|------------------------------------|-------------|-------------|----|
|     | 1. | 3.91 | C:\Database\NIST05a.L              |             |             |    |
|     |    |      | <pre>Imidazo[2,1-b]thiazole,</pre> | 2,3,5,6-tet | 014769-73-4 | 98 |
|     |    |      | <pre>Imidazo[2,1-b]thiazole,</pre> | 2,3,5,6-tet | 006649-23-6 | 98 |
|     |    |      | Imidazo[2.1-b]thiazole.            | 2.3.5.6-tet | 006649-23-6 | 98 |





File Name : F:\Q3-2010\System7\07 27 10\733493.D

Operator KAC

Date Acquired 28 Jul 2010 5:10

Sample Name

DXF Submitted by Vial Number 93

AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW\_TOX2.L

Library/ID PK# RT

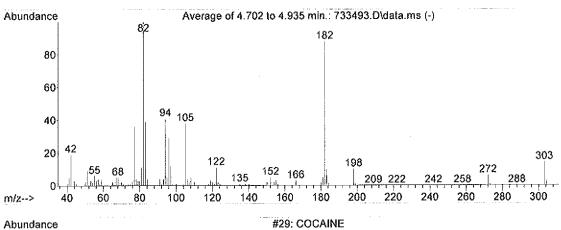
CAS# Qual

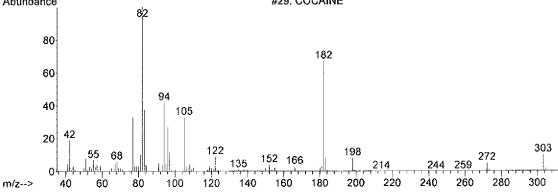
C:\Database\SLI.L 2 4.74

COCAINE

000050-36-2

99





File Name : F:\Q3-2010\System7\07\_27\_10\733495.D

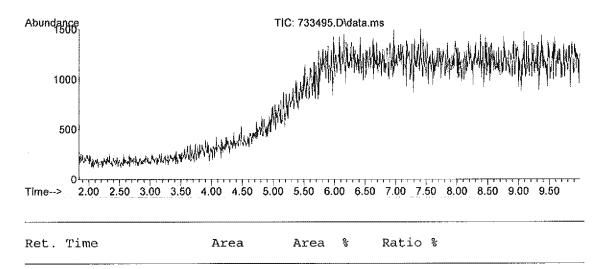
Operator : KAC

Date Acquired : 28 Jul 2010 5:35

Sample Name : BLANK

Submitted by :

Vial Number : 2 AcquisitionMeth: DRUGS.M Integrator : RTE



<sup>\*\*\*</sup>NO INTEGRATED PEAKS\*\*\*

File Name : F:\Q3-2010\System7\07\_27\_10\733496.D

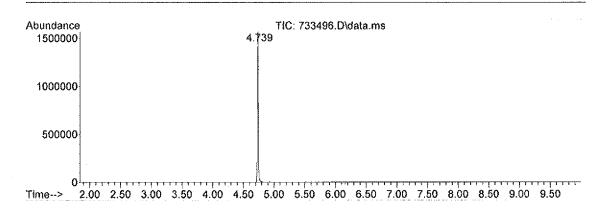
Operator : KAC

Date Acquired : 28 Jul 2010 5:48

Sample Name : COCAINE STD

Submitted by :

Vial Number : 96 AcquisitionMeth: DRUGS.M Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.739     | 1529771 | 100.00 | 100.00  |

File Name : F:\Q3-2010\System7\07\_27\_10\733496.D

Operator KAC

Date Acquired 28 Jul 2010 5:48

Sample Name COCAINE STD

Submitted by

Vial Number 96 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

PK# RTLibrary/ID CAS# Qual

4.74 C:\Database\SLI.L 1

COCAINE

000050-36-2

99

